20010313.ba v03_n125.bam.20010313

>From ???@??? Tue Mar 13 07:18:17 2001 -0600
Date: Tue, 13 Mar 2001 07:15:11 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3125
Message-Id: <20010313141644.38D4F4B6E@devel43.theporch.com>

BOATANCHORS Digest 3125

Topics covered in this issue include:

1) SX-42 re-do
   by "Bob Nickels" <ranickel@mwci.net>
2) Radar gear..any interest?
   by Paul Thekan <Paul.Thekan@eimac.cpii.com>
3) Re: Ambitious projects
   by Roy Morgan <roy.morgan@nist.gov>
4) Re: Ambitious projects
   by Roy Morgan <roy.morgan@nist.gov>
5) Hey! It's today (Sunday)!!!
   by "Stephens, Al" <Allan.Stephens@eku.edu>
6) Re Re Japanese radio
   by philip mccoy <dgnova@erols.com>
7) Re SP-600
   by philip mccoy <dgnova@erols.com>
8) NC-183D: V12 tube?
   by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
9) Re Japanese radio
   by philip mccoy <dgnova@erols.com>
10) DX-40 Controlled Carrier Idle Current?
    by "Christopher A.Bowne" <radiobwn@riconnect.com>
11) Re: loopsticks - the real story
    by Norm Flasch <flasch@cushy.ece.nwu.edu>
12) RE: {Collins} 51S-1 Excessive Dial Drag
    by "Constanten, Carl P." <CONSTCA@mail.northgrum.com>
13) RE: EF Johnson CB to 10 meter conversion?
    by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
14) Heathkit IO-103
    by Lenox Carruth <carruth@geo-thermal.com>
15) Re: Ambitious projects
    by Arden Allen <gumbear@pacbell.net>
16) Data plates
    by BEN NOCK <G4BXD@compuserve.com>
17) WillLabs or Wil-Labs Scopes ??
    by "Richard W. Solomon" <w1ksz@tiac.net>
18) Re: DX-40 Controlled Carrier Idle Current?

    by Bill Breshears <bbuck@ccconline.net>
 19) "Enigma" NCR Bombe Story URLs
    by "Steve" <scb@fly.hiwaay.net>
 20) Re: NC-183D: V12 tube?
    by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
 21) Trouble with DRIVER/FINAL unit
    by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
 22) WTD: manual for H-P 412A VTVM
    by Avery Comarow <acomarow@usnews.com>

Message-ID: <017701c08edb$5c2b56a0$0101a8c0@hppav>
From: "Bob Nickels" <ranickel@mwci.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: SX-42 re-do
Date: Sun, 4 Feb 2001 12:47:01 -0600
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If anyone would be interested in a possible group deal to get SX-42 panels redone, please drop me an e-mail.

Thanks and 73,
Bob W9RAN

Message-Id: <4.2.0.58.20010204111133.00baa7c0@pop3.eimac.cpii.com>
Date: Sun, 04 Feb 2001 11:22:19 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: Paul Thekan <Paul.Thekan@eimac.cpii.com>
Subject: Radar gear..any interest?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello to the group

If there is any interest in the following gear please get back to me.

T 75 APT-4

T 85 APT-4

Also a RT 264 / UPX -6

I will be taking this gear along with a ton more to the Foothill Swap meets this year.

Thank you

Paul

Message-Id: <5.0.0.25.2.20010202102107.02937910@sdct-sunsrv1.ncsl.nist.gov>
Date: Fri, 02 Feb 2001 10:26:05 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Morgan <roy.morgan@nist.gov>
Subject: Re: Ambitious projects
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I forgot to add:

3) The HRO-5AT kit. It was totally disassembled by the former owner. Wires, resistors and caps gone. All hardware in a bag. He'd made a new wiring harness of teflon wire but then his dog chewed it. Standard coil sets present but no power supply.

Why? Because its an HRO from the 30's. It's gonna sound really nice and I can run it all day every day.

- Roy Morgan, K1LKY since 1959
7130 Panorama Drive, Derwood MD 20855
Home: 301-330-8828 Work: Voice: 301-975-3254, Fax: 301-948-6213
roy.morgan@nist.gov --

Message-Id: <5.0.0.25.2.20010202101303.0297a3e0@sdct-sunsrv1.ncsl.nist.gov>
Date: Fri, 02 Feb 2001 10:20:38 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Morgan <roy.morgan@nist.gov>
Subject: Re: Ambitious projects
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:41 AM 1/31/01 -0600, A. B. Bonds wrote:
>Subject: Ambitious projects
>OK, folks, I smell a nice thread here. ...
>What is the most ambitious project you have, and why are you doing it?
...I have an HRO-60 that appears to have been in a flood. ...
>Why? It's an HRO-60. And it was only $50.

Anchorites,

I have the following projects:

1) The GO-9. This is a 1944 Navy patrol aircraft transmitter, with LF and HF sections separated by the power supply. It runs on 115 volts 800 cycles. I finally got the replacement plate current meter after searching at fests for 15 years.

Why? Because its Navy and is as old as I am. I know of very few others that are complete and running. And, it has keying relays as big as my fist and runs an 803 in each final. I'm gonna be ready when the 190 kc band opens up for 100 watts!

2) The SP-600 flood victim. It apparently was totally submerged for some time. Total disassembly needed, including the meter. Prospects of resurrection are about 50 percent.

Why? Because its an SP-600. And it cost me $25.

- Roy Morgan, K1LKY since 1959
7130 Panorama Drive, Derwood MD 20855
Home: 301-330-8828 Work: Voice: 301-975-3254, Fax: 301-948-6213
roy.morgan@nist.gov --

Message-ID: <9A5E9A851B2CD4118F8E0008C7E630A8DF9A05@FSMAIL>
From: "Stephens, Al" <Allan.Stephens@eku.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "'boatanchors@listserv.tempe.gov'" <boatanchors@listserv.tempe.gov>
Subject: Hey! It's today (Sunday)!!!
Date: Sun, 4 Feb 2001 06:01:01 -0500
MIME-Version: 1.0
Content-Type: text/plain

...so get off line and get on the air with those old critters you have been gathering for so long. Show us all what they are capable of doing. "CX" is this afternoon, 1500 to midnight east coast, noon to 2100 west coast... 2000Z to o500Z tomorrow, depending on where you live.

Your chance to be a part of the... Hmmmmm.... (ran out of toes and fingers to count upon)... Oh! The 53rd "CX," going back to January of 1975 (and for the first few called "NX," Nostalgia Exchange).

I'll be there, a good cast of "regulars" should be there, and maybe - if you're lucky - you'll work one of the two Cosmophones which have threatened to be there! At least aim for my Burnt Orange Globe Scout (or

Jim W8KGI's lime green one) 680. A collector's special!

    73 & CU in CX, Al N5AIT

Message-ID: <3A7A017B.8ADD7B73@erols.com>
Date: Thu, 01 Feb 2001 19:38:19 -0500
From: philip mccoy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re Re Japanese radio
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Please disregard my earlier message. The radio in question
appears to be a MODEl 97 LIGHT WIRELESS SET.
>From TM E11-227A
Frequency range 23.0 to 31.0mcs
power output 0.3 to 0.5w
Power source hand-driven gen or batteries
Antenna 51" with a 24" counterpoise
Tube UZ31MC dual triode

Message-ID: <3A7DCFDF.E6973290@erols.com>
Date: Sun, 04 Feb 2001 16:55:43 -0500
From: philip mccoy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re SP-600
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tried to align my SP-600 front end. There are holes on top
of the chassis marked C and L where the trimmer condensers
should be, but looking down into the holes, can't find any
trimmer condensers. Anyone got suggestions what type of
screwdriver to use and where the trimmers are ?

Philip McCoy dgnova@erols.com

Message-Id: <3.0.1.32.20010201215421.006f46f8@pop.ctv.es>
Date: Thu, 01 Feb 2001 21:54:21 +0100
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: NC-183D: V12 tube?
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hello!

I am in doubt with a tube in my NC-183D... In the manual I got from BAMA (great resource!), it says 'V12 6J5'. Well, in my unit, V12 socket (and most of other sockets and chassis around them) was completely covered by transformer tar. As you know, I have been able to get rid of it but I recall that while doing it, close to V12 there was something written and it was definitely NOT 6J5, but something like 6SG7G... unfortunately, then I was not aware of the tube V12 should be and, as it was not same paint as the other tube types (it was as stamped with blue ink), I wipped it out without writting it down, thinking the info was in the manual. Wrong move :-(!!!

So, please, could you check your NC-183D manuals or rigs and let me know if V12 is any other tube than 6J5?

BTW, in the chassis, under the tar, I discovered this engraved text (actually only the number is engraved): SER NO. 475 0032 . It is close the 0B2 regulator tube. Is it the serial number of my unit?. Any info I can extract?. A wild guess could be: 47=1947, 5=may, 0032=32th produced rig.

What a wonderful hobby :-)!

Thanks for your help,

JOSE
---
73 EB5AGV / EC5AAU - JOSE V. GAVILA
La Canyada - Valencia (SPAIN)

EB5AGV Vintage Radio Site: http://www.geocities.com/eb5agv

European Boatanchors List: http://www.eGroups.com/list/euro_ba_swap

---
Message-ID: <3A79E1AF.2A497B46@erols.com>
Date: Thu, 01 Feb 2001 17:22:39 -0500
From: philip mccoy <dgnova@erols.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re Japanese radio
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Re the Japanese radio. I believe I have 2 of those. Mine is a "< MODEL 94 MARK 6 Wireless set, Mark 23 type H

transmitter. The frequency range is 24.0 to 47.0 in
three bands.
They use a 6 pin tube type UZ30Mc. This has the same pin
out as the
type 19. The UZ30Mc has a 3 volt filament. B+ is 130 volts
and is supplied by a hand crank generator. The UZ30Mc is
a dual triode. In receive, one triode acts as a superreg
detector, with the second acting as an audio amp. The detector
is interesting in that the quench voltage is generated by
as follows:
There is a parallel tuned circuit, tuned to the operating
frequency, about 28mcs to 40mcs, going from grid to plate. The
plate and grid return leads go to another parallel tuned
circuit, tuned to the quench frequency maybe about 50kc. This
locks the quench frequency to a fixed value. Very interesting
circuit.

There is another similar set, the MODEL 97 LIGHT WIRELESS SET
 This set uses a type UZ31MC and the frequency range is
23.0 to 31.0mcs

I don't know which one you have.

Hope this helps

Message-ID: <01C08E96.F8D19FE0@dial42.pm3-v90.mystic.riconnect.com>
From: "Christopher A.Bowne" <radiobwn@riconnect.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: DX-40 Controlled Carrier Idle Current?
Date: Sun, 4 Feb 2001 10:40:59 -0500

Am looking for comments re what to expect for no signal final plate current
in the AM CC mode on a DX-40. My past experience leads me to think that it
should be about 50 mA. I had been running that, but lately, my DX-40 has
decided to idle up near about 75mA. This may be a metering issue, as I
found loose nuts on the meter terminals, possibly just a higher indication
for the same actual contidtions. Wattmeter indications are no different
than previous, about 10 W at idle, swinging up to about 60-75 W on voice
peaks. Modulation waveform looks good on a monitor scope, and seems to
sound OK. I have been loading the final heavily, as per WC3Ks
recommendations in ER, which makes a notable difference in modulation
quality and quantity vs just adjusting for 125 mA in CW and switching to
voice as per the manual. I also have noted that you can get to close
optimum loading by the time-honored extended "yay-lo" into the mic while
watching the monitor scope and listening to the signal on a monitor RX. At
the indicated 75 mA idle current, I don't see any abnormal color on the
6146, which leads me to think I'm still in the ball park. All the 6DE7 and

6146 voltages at idle and resistance readings seem in spec per the manual. Tube substitutions don't change things. Putting a calibrated multimeter in the cathode circuit via the key jack to measure cathode current shows slightly lower idle readings, about 65 mA, which supports a metering problem, since the cathode should also include the other tube element currents. On voice peaks, the set's meter is really banging the peg, while the test meter in the cathode is hitting up between 150 and 200 mils. At these indicated peaks, I'm still looking clean on the scope WRT headroom. and negative peak clipping. Any comments? Bill, WC3K, if you read this list. would especially like to hear from you, as you seem to be establishing a rep as Mr. Controlled Carrier, based on your fine ER articles!

73,

Chris Bowne, AJ1G
Stonington, CT
radiobwn@riconnect.com

From: Norm Flasch <flasch@cushy.ece.nwu.edu>
Message-Id: <200103121723.LAA20984@cushy.ece.nwu.edu>
Subject: Re: loopsticks - the real story
To: Old Tube Radios <boatanchors@theporch.com>
Date: Mon, 12 Mar 2001 11:23:22 -0600 (CST)
CC: ba <boatanchors@sco.theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

It is important to note that AM loopsticks are a tuned circuit. To adjust them you either need to add or subtract inductance. You do so by sliding the coil away from the core to reduce inductance and into the core for more. This is done in conjunction with the antenna trimmer adjustment on the tuning capacitor. After the procedure is completed the coil is held in place with a few drops of wax.

I wonder how many kit radios were never aligned properly. Our $35.00 Elenco kit radios that students build here are a great demonstration of antenna alignment. Actually, they provide a "magic wand" consisting of a piece of stiff spaghetti with a slug of brass on one end and iron on the other. During the procedure, it the signal gets stronger when the iron end of the wand is placed next to the loop, it needs more inductance. If it gets stronger when the brass end is present, it needs less and the coil is moved outward.

I built one of these radios and went through the alignment procedure. It

works like a champ and was allot of fun to build. They are built on a blueprint style PC board. The instructions are very complete and comprehensive. Kind of reminded me of an old Knight or Heathkit, but they lack a certain "warmth" somehow...

Of course some of those kits get wired wrong too.

> You may recall that I asked about loopsticks a while back but I didn't get
> much information that helped. I know more now let me tell you.
>
snip
>
> Well it worked for me and so does my GR-54 (probably for the first time).
> ---
>   Richard Loken VE6BSV, Systems Programmer - VMS
>   Athabasca University
>   Athabasca, Alberta Canada
>   ** richardlo@admin.athabascau.ca **
>

--
Norm Flasch
ECE Teaching Labs Manager
Northwestern University
Evanston, Illinois
847-467-4387

Message-ID:
<4D5B504F5A88D411A55400805FA7BAF9020DFC34@w208y20.fa18.masd.northgrum.com>
From: "Constanten, Carl P." <CONSTCA@mail.northgrum.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: {Collins} 51S-1 Excessive Dial Drag
Date: Mon, 12 Mar 2001 09:38:04 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Gary --

I had the same problem with mine; it could always be a sticky PTO, but in my case it turned out to be a slight (very slight) binding in the Veeder-Root counter assembly. There is a whole bunch of gear reduction between the tuning knob and the counter, and a tiny bit of excessive friction in the counter multiplies into quite a bit of torque at the tuning knob. Through age, heat, or whatever, the right hand drum on mine had warped or swollen just enough to bind on the shaft a little. To check to see if this is your problem, take the counter off (not too hard) and see if the tuning knob

still slips. If that fixes the slippage, there's your culprit. Fix in my case was to disassemble the counter (need a tiny pin punch, and some amount of organization to keep track of the various shims, etc) and relieve the bore of the drum a very slight amount with a fine needle file. Don't overdo it or the drum will wobble on the shaft and tuning won't ever be smooth again! A couple of strokes with the file will do it. I personally wouldn't oil it, since I think the plastic drum might absorb a little oil and swell some more.

Regards,

Carl W6UO

-----Original Message-----
From: Gary Franklin [mailto:franklin@net-link.net]
Sent: Sunday, March 11, 2001 2:59 PM
To: Old Tube Radios; Collins List
Subject: {Collins} 51S-1 Excessive Dial Drag

I have a newly acquired Collins 51S-1 receiver which has excessive dial drag. So much so that when the radio is cold the main tuning knob slips while the PTO remains fixed. I have discovered that when I use a hair dryer to heat up the gear train / PTO the tuning becomes very smooth and the 10kc detent steps become less pronounced. Probably how it should work! So the problem is lubrication (my basement is cold in the winter) which causes tuning stiffness until heated with my hair dryer. Now my question is what part of the gear train from the PTO to the tuning knob is likely to be the culprit? My guess is either the PTO or the gear assembly which the main tuning knob is attached to. Before I tear into the gear train or remove the PTO, I would like to hear from anyone out there who has had a similar problem with the 51S-1??

Thanks
Gary, K8BKB

Sponsored by the Collins Collectors Association http://www.collinsradio.org
Nets: Tues: 3.805 Mc-2000 Central / Thur: 3.875 Mc-2000 Central
Fri: 3.895 Mc-2000 Pacific / Sun: 14.263 Mc-2000 UTC

Date: Mon, 12 Mar 2001 12:46:47 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: EF Johnson CB to 10 meter conversion?
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200103121246_MC2-C880-215E@compuserve.com>

MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Dan,

I know that several friends of mine did that conversion back before we al=
l
went to Vietnam. All that I recall was the removal of a dropping resisto=
r
somewhere around the final to bring the output back up to what it had
originally been designed to do. I could be wrong (it has been 35 years)
but I don't recall them doing anything else other than putting a crystal =
in
it for 28.8 and tuning it up. Maybe the modulation had to be adjusted as=

well.

>I'm going stark-raving MAD looking at all that CB Krap on the web, looki=
ng
for the "how-to" to convert an EF Johnson Messenger (tube type, crystal-
controlled, the old "white face" Johnson) to 10 meter AM. SO does anyone
have or know where I can get some insight, instructions, or advice on
said conversion???
<

Robert Downs
<RWDowns_WA5CAB@compuserve.com>
Houston

Message-ID: <3AAD0F30.7B49E786@geo-thermal.com>
Date: Mon, 12 Mar 2001 12:02:24 -0600
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Heathkit IO-103
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ran across a Heathkit IO-103 Oscilloscope cheap but have not bought it.
Can anyone tell me something about this unit? It looks too big to be
solid-state.

--

Lenox

Lenox Carruth Dallas, TX carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TBX-8 Antenna, Key, Canvas Case, Accessory Box

Date: Mon, 12 Mar 2001 10:34:36 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Ambitious projects
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0GA3001REKV55Y@mta6.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

> .....He'd made a new wiring harness of teflon wire but then his dog
chewed it. .....

"I couldn't get on the air because my dog ate the radio"?

Best story I've heard yet! Hi!

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Date: Mon, 12 Mar 2001 13:35:33 -0500
From: BEN NOCK <G4BXD@compuserve.com>
Subject: Data plates
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200103121335_MC2-C87D-7D33@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

I have several pieces of World War II era military radio equipment that
have some type of synthetic plastic or fiber data plates. These plates
have faded to a pale yellow color with the part that was originally
black a sort of yellow/gray color. If I rub them with something wet,
they return to their original appearance but the fade again when dry.

Now the test: Has anyone found a way to permanently rejuvenate these
data plates? If so, how?
>>

I have found that if cleaned of dirt and dust and then coated with a clea=
r =

nail polish (ask the wife first !) the contrast comes up and they are not=

too bad. =

For metal ones also, a good polish with Brasso then a coat of No7 clear
lacqure and hey presto, as new. =

Ben G4BXD
Military Wireless in the Midlands Museum
www.qsl.net/g4bxd

From: "Richard W. Solomon" <w1ksz@tiac.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WillLabs or Wil-Labs Scopes ??
Date: Mon, 12 Mar 2001 17:41:52 -0500
Message-ID: <LOBBJFMMJJCIMDIAGBJLGENJFKAA.w1ksz@tiac.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A friend of mine, not on the reflector, is looking for an old scope.
Thinks the Company was Wil-Labs or WillLabs or something like that.
Old, Black Crinkle finish, sloping front, smallish CRT.
Anyone have any info on this company ?

Thanks, Dick, W1KSZ

Message-ID: <3AAD52E2.C2C932E0@ccconline.net>
Date: Mon, 12 Mar 2001 17:51:15 -0500
From: Bill Breshears <bbuck@ccconline.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: DX-40 Controlled Carrier Idle Current?

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If scope and output looks well but the indicated cathode current has increased, I would check out the meter calibration as you suspect. I have had troubles with the meter shunt/cathode resistor changing value on DX-60s. The two watt resistors in the screen modulator do also. Any change in the final screen voltage at resting carrier will have the same effect. The modulator tube provides a dc amp function that might cause the same but you changed that. A puzzler considering what you have found so far.

"Christopher A.Bowne" wrote:

> Am looking for comments re what to expect for no signal final plate current
> in the AM CC mode on a DX-40. My past experience leads me to think that it
> should be about 50 mA. I had been running that, but lately, my DX-40 has
> decided to idle up near about 75mA. This may be a metering issue, as I
> found loose nuts on the meter terminals, possibly just a higher indication
> for the same actual contidtions. Wattmeter indications are no different
> than previous, about 10 W at idle, swinging up to about 60-75 W on voice
> peaks. Modulation waveform looks good on a monitor scope, and seems to
> sound OK. I have been loading the final heavily, as per WC3Ks
> recommendations in ER, which makes a notable difference in modulation
> quality and quantity vs just adjusting for 125 mA in CW and switching to
> voice as per the manual. I also have noted that you can get to close
> optimum loading by the time-honored extended "yay-lo" into the mic while
> watching the monitor scope and listening to the signal on a monitor RX. At
> the indicated 75 mA idle current, I don't see any abnormal color on the
> 6146, which leads me to think I'm still in the ball park. All the 6DE7 and
> 6146 voltages at idle and resistance readings seem in spec per the manual.
> Tube substitutions don't change things. Putting a calibrated multimeter
> in the cathode circuit via the key jack to measure cathode current shows
> slightly lower idle readings, about 65 mA, which supports a metering
> problem, since the cathode should also include the other tube element
> currents. On voice peaks, the set's meter is really banging the peg, while
> the test meter in the cathode is hitting up between 150 and 200 mils. At
> these indicated peaks, I'm still looking clean on the scope WRT headroom.
> and negative peak clipping. Any comments? Bill, WC3K, if you read this
> list. would especially like to hear from you, as you seem to be
> establishing a rep as Mr. Controlled Carrier, based on your fine ER
> articles!
>
> 73,
>
> Chris Bowne, AJ1G
> Stonington, CT
> radiobwn@riconnect.com

Message-Id: <200103130505.f2D551w01828@mail.hiwaay.net>
From: "Steve" <scb@fly.hiwaay.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Mon, 12 Mar 2001 23:04:58 +0000
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: "Enigma" NCR Bombe Story URLs

Greetings;
 As the original URL for this story was for a daily paper, I saved
the actual URLs for those who wanted to read it but were too late.
A fine story and another piece of this wartime puzzle. Please repost
where appropriate.

<http://www.activedayton.com/partners/ddn/local/0225enigma.html >
<http://www.activedayton.com/partners/ddn/local/0226enigma.html >
<http://www.activedayton.com/partners/ddn/local/0227enigma.html >
<http://www.activedayton.com/partners/ddn/local/0228bombe.html >
<http://www.activedayton.com/partners/ddn/local/0301bombe.html >
<http://www.activedayton.com/partners/ddn/local/0302bombe.html >
<http://www.activedayton.com/partners/ddn/local/0303bombe.html >
<http://www.activedayton.com/partners/ddn/local/0304bombe.html >

Rgds; Steve Bringhurst

Message-Id: <3.0.5.32.20010313073331.0082f5b0@192.168.0.1>
Date: Tue, 13 Mar 2001 07:33:31 +0100
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: Re: NC-183D: V12 tube?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello all!

If you look at the date of my message, you will see it is more than a month
old!. I don't know how it went through a month later... Anyway, thanks a
lot for taking the time to answer it again.

Best regards,

JOSE

PS: I have also got some other February dated messages from the List...

guess some server process has liberated them ;-)
---
  73 EB5AGV / EC5AAU - JOSE V. GAVILA
     La Canyada - Valencia (SPAIN)

  EB5AGV Vintage Radio Site: http://www.geocities.com/eb5agv

  European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

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Message-Id: <3.0.5.32.20010313111212.00833da0@pop.ctv.es>
Date: Tue, 13 Mar 2001 11:12:12 +0100
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: Trouble with DRIVER/FINAL unit
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello!

I am somewhat lost trying to locate an obscure (for me at least!) fault in my Yaesu FT-901DM _tubed_ DRIVER/FINAL unit. Basically, the problem is that the DRIVER (the common 12BY7A which drives a couple 6146B) peaks in TX far from the position it should. As a sample, you get a peak in RX at 7 on the PRESELECTOR dial (which is in the right position, according to control presettings) and, to get a maximum at the plate of the driver tube, you need to go to 9. And this happens in all bands, from 10 to 160 meters.

Preselector control moves three cores of tunable transformers (T1 for RX, T2 and T3 for TX). T2 is in the grid circuit and T3 in the plate circuit. All of them were at the factory settings (I have also compared with another 901 to verify this). I tried to change the T2 and T3 settings and, yes, they definitely modify the output, but in a position where the coil form is too much out of the coil, so it seems something is bad. The only setting you can change for each band is a capacitor in the driver grid circuit and another one in the plate circuit. But they are not enough to get the proper setting. I have also checked swapping driver tube with a known good but it works the same. So it seems some component has drifted in value or is faulty. But it seems to affect both grid and plate driver circuits.

I am sure somebody has found a similar trouble in the past... please, help me on this.

Thanks!

JOSE
---
  73 EB5AGV / EC5AAU - JOSE V. GAVILA

La Canyada - Valencia (SPAIN)

EB5AGV Vintage Radio Site: http://www.geocities.com/eb5agv

European Boatanchors List: http://groups.yahoo.com/group/euro_ba_swap

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Message-Id: <4.2.2.20010313081402.00a956d0@ntpop.usnews.com>
Date: Tue, 13 Mar 2001 08:15:11 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Avery Comarow <acomarow@usnews.com>
Subject: WTD: manual for H-P 412A VTVM
Cc: test-equipment@qth.net, dcboatanchors@qth.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Subject line says it all. Anybody got an extra or might make me a copy?
Glad to pay copying and mailing costs, of course.

73, Avery W3AVE

End of BOATANCHORS Digest 3125
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